

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: DADASHEV, Oleg Examiner: Not yet known
Serial No.: 10/810,683 Group Art Unit: 2186
Filed: March 29, 2004
Title: APPARATUS AND METHODS FOR MULTI-LEVEL SENSING IN A
MEMORY ARRAY

Mail Stop Amendment
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §§1.56, 1.97 and 1.98, this Information Disclosure Statement includes Form PTO-1449:

1. ☒ listing documents including patents, publications and other information for consideration by the Examiner, however, since the subject application was filed after June 30, 2003, copies of United States patents, and/or United States patent applications, and/or United States patent application publications are not included in this information disclosure statement; and/or
2. ☐ listing documents including patents, publications and other information that have been previously cited or submitted to the Patent Office in prior application U.S. Serial No. _____, filed _____ which is properly identified and relied on for an earlier effective filing date under 35 U.S.C. 120 for consideration by the Examiner; however, in accordance with 37 C.F.R. 1.98(d), copies of such documents are not included in this information disclosure statement; and/or
3. ☐ listing documents including patents, publications, and other information for consideration by the Examiner, copies of which are included with this information disclosure statement;

4. ☐ listing other information for the Examiner's consideration which was cited in a communication from a foreign patent office in a counterpart foreign application, a copy of which is included with this information disclosure statement.

The information herein cited is only in fulfillment of Applicant(s) duty of candor in disclosing all information brought to Applicant(s) attention. This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art". If it should be determined that any of the listed documents do not constitute "prior art" under United States law, Applicant(s) reserve the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicant(s) further reserve(s) the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

In accordance with MPEP Sections 609 and 707.05(b), it is requested that each and every document cited (including any cited in applicant's specification which is not repeated on the attached Form PTO-1449) be given thorough consideration and that it be cited of record in the prosecution history of the present application by initialing on Form PTO-1449. Such initialing is requested even if the Examiner does not consider it to be prior art for any reason, or even if the Examiner does not believe that the guidelines for citation have been fully complied with. This is requested so that each document becomes listed on the face of the patent issuing on the present application and is evidence that the Examiner has considered the document.

This Information Disclosure Statement is being filed:

I) ☒ Within three (3) months of filing the subject Application or entry of the subject Application into the national stage or before mailing of the first Office Action on the merits of the subject Application or a request for continued examination thereof, whichever event occurs last pursuant to of 37 C.F.R §1.97 (b); or

II) ☐ After the period specified in (I) but before the mailing date of either a final Official Action under 37 C.F.R §1.113 or a notice of allowance under 37 C.F.R §1.311 whichever occurs first and;

1. ☐ the undersigned hereby states that each item of information listed on the Form PTO-1449 was either (i) cited in a communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to

the filing of this Information Disclosure Statement or (ii) not cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, not known to any individual designated in §1.56(c) more than three (3) months prior to the filing of this information disclosure statement; or

2. ☐ the undersigned hereby authorizes the Patent Office to charge the fee in the amount of \$180.00 under 37 C.F.R §1.17 (p) to Deposit Account 05-0649.

III) ☐ After the period in (I) and (II) but before the payment of the issue fee and,

1. The undersigned hereby states:

a) ☐ that each item of information cited on the form PTO-1449 was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three (3) months prior to the filing of this Information Disclosure Statement; or

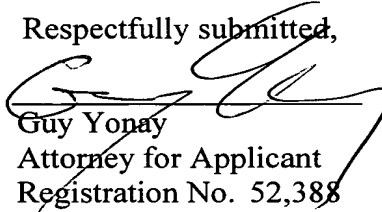
b) ☐ that no items of information contained in Form PTO-1449 was cited in a communication from a foreign patent office in a counterpart foreign application, and to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement; and

2. ☐ The undersigned hereby authorizes the Patent Office to charge the Petition fee in the Amount of \$180.00 under 37 C.F.R §1.17 (p) to Deposit Account 05-0649.

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Except for issue fees payable under 37 C.F.R. §1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R. §§1.16 and 1.17 which may be required, including any required extension of time fees, or credit any overpayment to Deposit Account No. 05-0649.

Respectfully submitted,



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Attorney for Applicant
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Dated: November 21, 2004

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Substitute for form 1449A/PTD INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		NOV 24 2004 PATENT AND TRADEMARK OFFICE		Complete if Known	
		Application Number		10/810,683	
		Filing Date		March 29, 2004	
		First Named Inventor		DADASHEV, Oleg	
		Group Art Unit		2186	
		Examiner Name		Not yet known	
		Attorney Docket Number		P-5675-US	
Sheet	1	of	6		

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	1	5,359,554		Odake et al.	Oct. 25, 1994	
	2	5,812,449		Song	Sep. 22, 1998	
	3	5,349,221		Shimoji	Sep. 20, 1994	
	4	6,034,896		Ranaweera et al.	Mar. 7, 2000	
	5	6,552,387		Eitan	Apr. 22, 2003	
	6	6,011,725		Eitan	Jan. 4, 2000	
	7	4,667,217		Janning	May 19, 1987	
	8	4,527,257		Cricchi	Jul. 2, 1985	
	9	5,418,743		Tomioka et al.	May 23, 1995	
	10	5,450,354		Sawada et al.	Sep. 12, 1995	
	11	5,521,870		Ishikawa	May 28, 1996	
	12	6,307,807		Sakui et al.	Oct. 23, 2001	
	13	6,285,589		Kajitani	Sep. 4, 2001	
	14	5,027,321		Park	Jun. 25, 1991	
	15	5,712,815		Bill et al.	Jan. 27, 1998	
	16	5,295,108		Higa	Mar. 15, 1994	
	17	5,537,358		Fong	Jul. 16, 1996	
	18	2003/0142544		Maayan et al.	Jul. 31, 2003	
	19	6,252,799		Liu et al.	Jun. 26, 2001	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	ForeignPatent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	20	EP	0 656 628		Advanced Micro Devices Inc.	Apr. 9, 2003		<input type="checkbox"/>
	21	JP	02002216488		Iwate Toshiba Electronics Co. Ltd.	Aug. 2, 2002		<input type="checkbox"/>
	22	JP	408106791		Matsushita Electric Ind. Co. Ltd.	April 23, 1996		<input type="checkbox"/>
	23	EP	1126468		Hewlett-Packard Company	Aug. 22, 2001		<input type="checkbox"/>
	24	EP	1 071 096		STMicroelectronics S.r.l.	Jan. 24, 2001		<input type="checkbox"/>
	25	WO	03/088261		Advanced Micro Devices Inc.	Oct. 23, 2003		<input type="checkbox"/>
	26	WO	03/063168		Advanced Micro Devices Inc.	Jul. 31, 2003		<input type="checkbox"/>
	27	WO	03/036651		Advanced Micro Devices Inc.	May 1, 2003		<input type="checkbox"/>
	28	WO	00/46808		Saifun Semiconductors Ltd.	Aug. 10, 2000		<input type="checkbox"/>

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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Sheet 2 of 6		Application Number 10/810,683	Filing Date March 29, 2004
		First Named Inventor DADASHEV, Oleg	Group Art Unit 2186
		Examiner Name Not yet known	Attorney Docket Number P-5675-US

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		Number	Kind Code ² (if known)			
	29	2004/0008541		Maayan et al.	Jan. 15, 2004	
	30	6,353,554		Banks	Mar. 5, 2002	
	31	2002/0034097		Banks	Mar. 21, 2002	
	32	5,717,632		Richart et al.	Feb. 10, 1998	
	33	4,388,705		Sheppard	Jun. 14, 1983	
	34	4,389,705		Sheppard	Jun. 21, 1983	
	35	5,784,314		Sali et al.	Jul. 21, 1998	
	36	5,812,456		Hull et al.	Sep. 22, 1998	
	37	5,828,601		Hollmer et al.	Oct. 27, 1998	
	38	5,886,927		Takeuchi	Mar. 23, 1999	
	39	5,241,497		Komarek	Aug. 31, 1993	
	40	5,583,808		Brahmbhatt	Dec. 10, 1996	
	41	5,754,475		Bill et al.	May 19, 1998	
	42	5,841,700		Chang	Nov. 24, 1998	
	43	6,469,935		Hayashi	Oct. 22, 2002	
	44	5,940,332		Artieri	Aug. 17, 1999	
	45	5,335,198		Van Buskirk et al.	Aug. 2, 1994	
	46	5,986,940		Atsumi et al.	Nov. 16, 1999	
	47	2003/0214844		Iijima	Nov. 20, 2003	
	48	2003/0117841		Yamashita	Jun. 26, 2003	

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	49	EP	1164597		Sharp Kabushiki Kaisha	Dec. 19, 2001		<input type="checkbox"/>
	50	EP	0740307		SGS-Thomson Microelectronics S.r.l.	Oct. 30, 1996		<input type="checkbox"/>
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		Number	Kind Code ² (if known)			
	91	6,535,434		Maayan et al.	Mar. 18, 2003	
	92	6,469,929		Kushnarenko et al.	Oct. 22, 2002	
	93	5,508,968		Collins et al.	Apr. 16, 1996	
	94	5,544,116		Chao et al.	Aug. 6, 1996	
	95	5,627,790		Golla et al.	May 6, 1997	
	96	5,771,197		Kim	Jun. 23, 1998	
	97	6,529,412		Chen et al.	Mar. 4, 2003	
	98	6,525,969		Kurihara et al.	Feb. 25, 2003	
	99	6,650,568		Iijima	Nov. 18, 2003	
	100	6,643,178		Kurihara	Nov. 4, 2003	
	101	6,594,181		Yamada	Jul. 15, 2003	
	102	6,574,139		Kurihara	Jun. 3, 2003	
	103	2004/0013000		Torii	Jan. 22, 2004	
	104	2004/0012993		Kurihara	Jan. 22, 2004	
	105	2003/0208663		Van Buskirk et al.	Nov. 6, 2003	
	106	6,510,082		Le et al.	Jan. 21, 2003	
	107	6,233,180		Eitan et al.	May 15, 2001	
	108	6,535,434		Maayan et al.	Mar. 18, 2003	
	109	5,982,666		Campardo	Nov. 9, 1999	
	110	6,282,133		Nakagawa et al.	Aug. 28, 2001	

[illegible]

Examiner Signature		Date Considered	
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		Number	Kind Code ² (if known)			
	111	6,044,019		Cernea et al.	Mar. 28, 2000	
	112	5,847,441		Cutter et al.	Dec. 8, 1998	
	113	5,276,646		Kim et al.	Jan 4, 1994	
	114	5,142,496		Van Buskirk	Aug. 25, 1992	
	115	5,381,374		Shiraishi et al.	Jan. 10, 1995	
	116	6,639,837		Takano et al.	Oct. 28, 2003	
	117	5,805,500		Campardo et al.	Sep. 8, 1998	
	118	5,434,825		Harari	Jul. 18, 1995	
	119	6,639,844		Liu et al.	Oct. 28, 2003	
	120	2001/0006477		Banks	Jul. 5, 2001	
	121	5,172,338		Mehrotra et al.	Dec. 15, 1992	
	122	6,643,170		Huang et al.	Nov. 4, 2003	
	123	6,670,669		Kawamura	Dec. 30, 2003	
	124	5,822,256		Bauer et al.	Oct. 13, 1998	
	125	5,867,429		Chen et al.	Feb. 2, 1999	
	126	5,633,603		Lee	May 27, 1997	

[illegible]

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